# ABSTRACT

Affords high-stability, high-safety lithium secondary batteries of high energy density and superlative charge/discharge cyclability, in which shorting due to the growth of dendrites from the metallic-lithium negative electrode is kept under control.

A lithium secondary battery negative-electrode component material, formed by laminating onto a substrate a metallic lithium film and an inorganic solid-electrolyte film, the lithium secondary battery negative-electrode component material characterized in that the inorganic solid-electrolyte film incorporates lithium, phosphorous, sulfur, and oxygen, and is represented by the compositional formula noted below.

$aLi \cdot bP \cdot cS \cdot dO$

(Li: lithium; P: phosphorous; S: sulfur; O: oxygen), wherein the ranges of the atomic fractions in the composition are:

$0.20 \leq a \leq 0.45$;

$0.10 \leq b \leq 0.20$;

$0.35 \leq c \leq 0.60$;

$0.03 \leq d \leq 0.13$;

$(a + b + c + d = 1)$.